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Introduction

The DAWN Clinical Framework (DAWN CF) release notes are intended to give the user an overview of the changes introduced in each new release of the CF application.

How These Release Notes Are Structured

The release notes detail the changes that were introduced in each new release starting with the most recent release through to the oldest release.

Each release will be sub-divided into sections that define the changes made to each of the available modules within the Clinical Framework application, as detailed below:

- **Clinical Framework Base System**
  The Clinical Framework Base System includes all areas of the system that are common to both Anticoagulation and Chronic Disease Monitoring application areas (e.g. patient screens, clinic screens). Every system contains this component. If changes are made to the Clinical Framework Base System, a section will be included in the release notes listing those changes. This section should be read by users of all application areas.

- **Anticoagulation Base Module**
  The Anticoagulation base module includes areas of the system that are specific to the Anticoagulation application area (e.g. the anticoagulation dosing engine and the patient treatment screen). If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you purchased this module.

- **Anticoagulation Induction Module**
  The Anticoagulation Induction module allows patients to be dosed using induction algorithm rules and will let you know when they reach the end of the protocol and can be moved over to maintenance. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you purchased this module.

- **Chronic Disease Monitoring Base Module**
  The Chronic Disease Monitoring base module includes areas of the system that are specific to the Chronic Disease Monitoring application areas (e.g. the alerting and trending engine and the patient intervention screen). If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you purchased this module.

- **Automatic Authorisation Module**
  The Automatic Authorisation module allows for calculated anticoagulant doses to be automatically accepted and authorised dependent upon a set of rules (e.g. the INR is in range, the calculated dose has not changed, no alerts have been generated, the risk class is low, there are no treatment notes etc). If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Questionnaire Module**
  The Questionnaire module allows for the capture and calculation of scores from patient responses. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Custom Modules**
  The Custom Module add-on allows for the creation of site specific programs or macros that perform extra validation or automate certain tasks (e.g. validating a UK NHS number has been entered correctly, defining rules for automatic authorisation). If changes are made to this module, a section will be included in the release notes listing those changes. This section

should be read if you have purchased this module.

- **Anticoagulation Inbound INR Interface Module**
  The Anticoagulation Inbound INR Interface Module allows for INR results to be imported into the Anticoagulation application area via the DAWN Integration Engine. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Anticoagulation Inbound Non-INR Test Results Interface Module**
  The Anticoagulation Inbound Non-INR Test Results Interface Module allows for non-INR test results (e.g. haematocrit, platelets, creatinine) to be imported into the Anticoagulation application area via the DAWN Integration Engine for viewing purposes only. No alerting or trending is performed. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Chronic Disease Monitoring Inbound Test Results Interface Module**
  The Chronic Disease Monitoring Inbound Test Results Interface Module allows for test results (e.g. hematocrit, platelets, creatinine) to be imported into the Chronic Disease Monitoring application areas via the DAWN Integration Engine. Where applicable, patient intervention records will be updated accordingly and any alerting or trending processing will be performed. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Clinical Framework Inbound Demographics Interface Module**
  The Clinical Framework Inbound Demographics Interface Module allows for patient demographic details to be imported into the Clinical Framework base system via the DAWN Integration Engine. Matched patient details will be updated and new patients can be created if configured to do so. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Clinical Framework Inbound Admissions & Discharges Interface Module**
  The Clinical Framework Inbound Admissions & Discharges Interface Module allows for patient admission and discharge details to be imported into the Clinical Framework base system via the DAWN Integration Engine. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

- **Clinical Framework Outbound Interface Module**
  The Clinical Framework Outbound Interface Module allows for text file or web service messages to be exported from the Clinical Framework base system. If changes are made to this module, a section will be included in the release notes listing those changes. This section should be read if you have purchased this module.

If you are considering updating to the latest version of DAWN CF, you should read and familiarise yourself with all the improvements made since the version you are currently using.

Windows Compatibility

WARNING

The latest versions of DAWN are no longer compatible with Windows 2000. In order to upgrade to 7.9.33 onwards, your Web Server must be running Windows 2003 as a minimum.

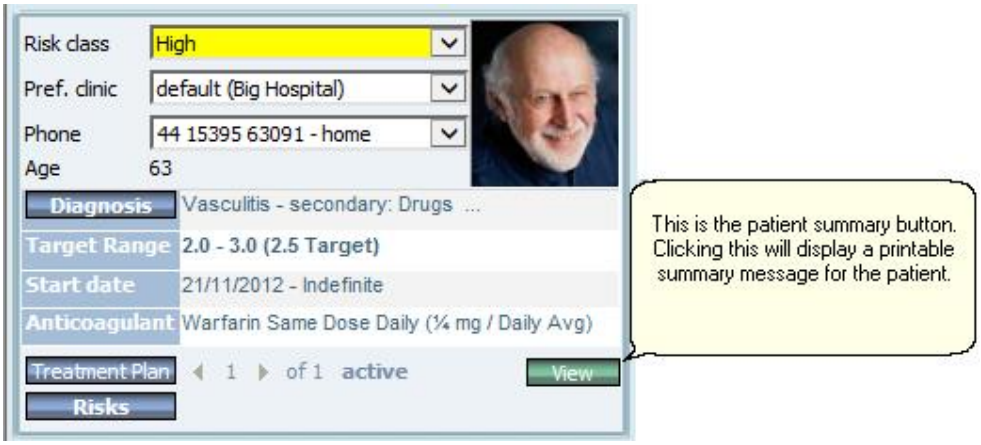
Recommended minimum: Windows 2008.

What's New in DAWN CF 7.9.36

Changes Affecting the Clinical Framework Base System

View Patient Summary Button

You can now configure your DAWN system to display a *View* button on the main patient screen. Pressing the *View* button displays a summary of the patient's treatment to date, based on a pre-selected message template. The patient summary is displayed in its own window, with popup Print options, in the same way as letters and messages are displayed when you select a *Direct Print* message from the drop down list on the letters tab.



You can choose which Message Template to use for the *Patient Summary* so you can ensure the summary includes the information you need to see. If your DAWN system is shared by more than one department (for example, anticoagulation and DVT assessment or rheumatology and gastroenterology), you have the option to choose a different Message Template for each department or disease area.

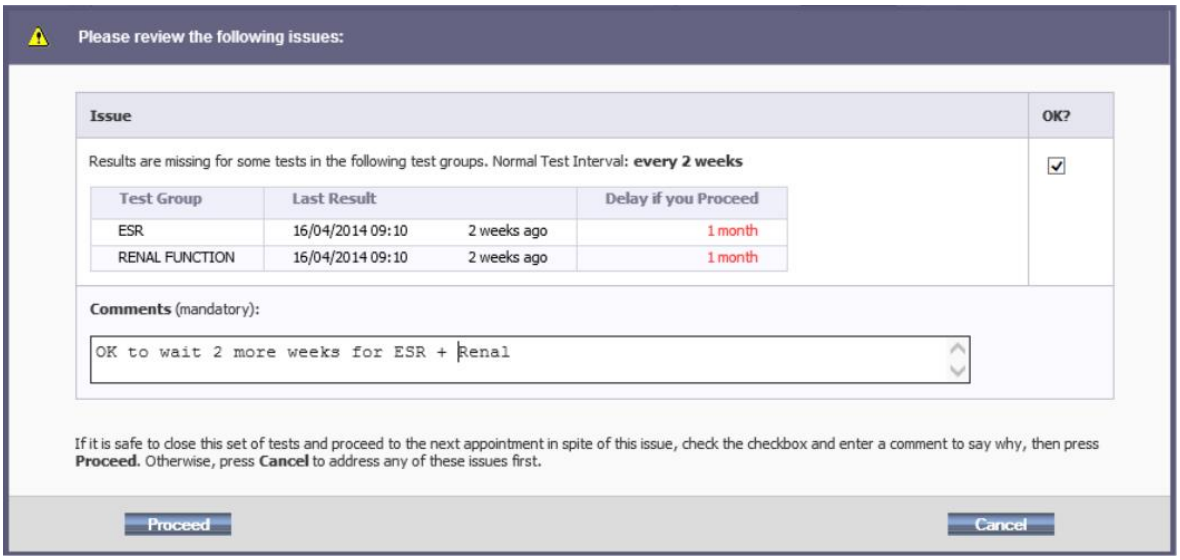
Changes Affecting the Chronic Disease Monitoring Base Module

New Confirmation Dialog for Closing a Set of Tests with Missing Results, Early Results or a Long Test Interval

In previous versions of DAWN, you were prevented from closing a set of tests if some tests had missing results unless you individually marked each test as not required this time. To do this for a whole test group could be laborious.

In the latest version, DAWN displays a dialog showing which test groups are missing results, how long ago the last results you had for these tests were and how long the patient might go without a result for these tests should you proceed with closing the set of tests. If it is safe to continue, you can check a

check box to acknowledge the warning and enter a comment. You are then able to proceed with closing the set of tests.


Please review the following issues:
Issue
OK?
Results are missing for some tests in the following test groups. Normal Test Interval: every 2 weeks
Test Group
Last Result
Delay if you Proceed
ESR
16/04/2014 09:10
2 weeks ago
1 month
RENAL FUNCTION
16/04/2014 09:10
2 weeks ago
1 month
Comments (mandatory):
OK to wait 2 more weeks for ESR + Renal
If it is safe to close this set of tests and proceed to the next appointment in spite of this issue, check the checkbox and enter a comment to say why, then press Proceed. Otherwise, press Cancel to address any of these issues first.
Proceed
Cancel

In previous versions, DAWN also checked whether any results were significantly early and whether the interval to the next test date was longer than expected. If so, it displayed separate confirmation boxes for each issue.

In the latest version if any combination of early results, missing results and longer than expected next test interval are detected, the information is combined in a single dialog so you can review it as a whole.

What's New in DAWN CF v7.9.35

Changes Affecting the Clinical Framework Base System

Load Balanced Application Pools

DAWN CF v7.9.35 now supports a ñload balanced application poolsò configuration, which can significantly improve system performance.

The DAWN system is single threaded which means that it processes web requests from different users (for patient records, list views, reports, the diary, indeed any screen or function within DAWN), one at a time. At peak times, when several users are logged in, web requests from different users can queue up causing a bottleneck that makes system performance for each user deteriorate.

Version 7.9.35 supports an alternative configuration where web requests from different users are automatically distributed among several instances of the DAWN system meaning they are processed in parallel rather than series, thus reducing or even removing queuing.

In addition to providing the mechanism for redirecting users to specific instances of DAWN, version 7.9.35 includes updated routines to ensure that outbound interfaces and updates to system settings are handled correctly in a load balanced environment.

Full details of ñload balanced application poolsò including instructions on setting them up are available in a separate document, entitled ñSetting up Load Balanced Application Pools.pdfò

What's New in DAWN CF v7.9.34

Changes Affecting the Clinical Framework Base System

Fix for Problem with the Database Upgrade

A fault existed in previous versions that could, on rare occasions, cause an error on upgrading to a later version of DAWN. This fault is fixed in 7.9.34.

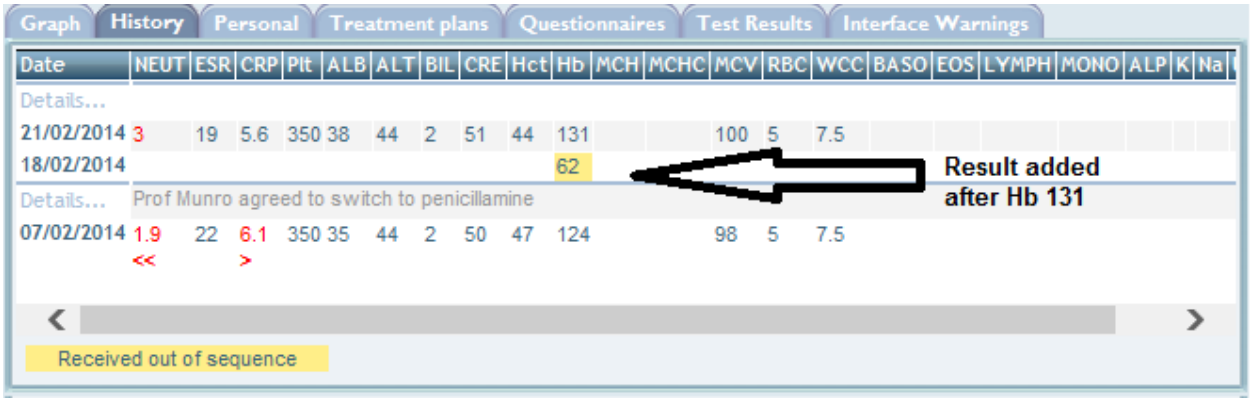
Changes Affecting the Chronic Disease Monitoring Base Module

Highlighting Test Results Received Out of Sequence

DAWN is designed to receive each result in the order it was taken. In other words, it expects to receive Monday's Haemoglobin result before Tuesday's Haemoglobin result.

Your hospital lab system might sometimes send electronic results to your DAWN system in an unexpected order. As DAWN calculates trends between the results for consecutive appointments, these trends are NOT recalculated or corrected in any way if an intervening result (that is, one with an earlier specimen date) is added later.

As such, it is important to re-review the pattern of results if an interim result is received out of sequence. In 7.9.34, out-of-sequence results are highlighted in the History panel and a new filter is available on the Worklist list view to draw your attention to results that have been received out of sequence.


Graph
History
Personal
Treatment plans
Questionnaires
Test Results
Interface Warnings
Date NEUT ESR CRP Plt ALB ALT BIL CRE Hct Hb MCH MCHC MCV RBC WCC BASO EOS LYMPH MONO ALP K Na
Details...
21/02/2014 3 19 5.6 350 38 44 2 51 44 131 100 5 7.5
18/02/2014 62
Result added after Hb 131
Details... Prof Munro agreed to switch to penicillamine
07/02/2014 1.9 << 22 6.1 > 350 35 44 2 50 47 124 98 5 7.5
Received out of sequence

In the above example, no trend has been calculated on the fall in Haemoglobin from 124g/L to 62g/L and the result of 62g/L has not been identified as outside the limits set for this test, because the result of 62g/L was sent from the lab system after the result of 131g/L. However, the out-of-sequence result is highlighted and the patient appears in the new Worklist ñOut-of-sequence resultsò filter.

Fix for Displaying Review Notes from an Earlier Treatment Plan in the History Panel

The history panel on the patient screen includes test results and review notes for up to three months before the start of the current treatment plan. A fault existed in versions of DAWN between 7.9.26 and 7.9.33 where, in certain circumstances, the last review note from the previous treatment plan was displayed at the top of the history (as if it related to the latest appointment) instead of in the appropriate chronological position. This fault is fixed in 7.9.34

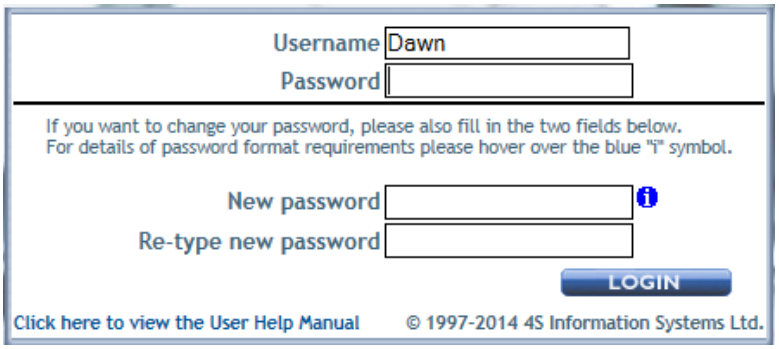
What's New in DAWN CF v7.9.33

Changes Affecting the Clinical Framework Base System

Login Screen ï Improvements to Text and Error Messages and New Link to User Manual

Some additional text has been added to the DAWN Login screen as shown below telling users that the details of password format requirements can be seen by hovering over the blue óinformationôicon.

A link to the User Help Manual has been added to the DAWN Login screen as shown below.


Username
Dawn
Password
If you want to change your password, please also fill in the two fields below.
For details of password format requirements please hover over the blue "i" symbol.
New password
Re-type new password
LOGIN
Click here to view the User Help Manual
© 1997-2014 4S Information Systems Ltd.

The information message which displays when a new user logs in for the first time and needs to create a password, or when a user with an expired password needs to change their password has been improved to give more information to the user about how to enter the new password and that password format requirements apply.

Help Button

A Help button has been added to the area at the top of every DAWN screen. Clicking this button opens the DAWN User Manual in a new window.

Changes Affecting the Anticoagulation Base Module

Variance Growth Rate (VGR) Functionality

New functionality has been added to DAWN AC to calculate and display the 6 month %TIR and 3 month VGR as traffic light indicators of the risk of a patient having a bleeding or thrombotic event. This functionality is disabled by default but can be turned on by changing a System Setting. The functionality applies to all patients on active warfarin (or other vitamin K antagonist) regimes.

What's New in DAWN CF v7.9.32

Changes Affecting the Clinical Framework Base System

Fix for a Fault Where the Treatment Plan is not Stopped when a Patient Record is Marked as Deceased

If you mark a patient record as deceased, DAWN automatically stops all related Treatment Plans. However, in some circumstances, DAWN may be unable to stop a Treatment Plan. This may be because the user does not have sufficient permissions or, in Chronic Disease Monitoring modules, because the patient already has some test results for their latest appointment or has an open referral.

In previous versions of DAWN, the system did not report an error in such cases, it simply left the Treatment Plan with its current status and marked the patient record as deceased. This could cause problems with deceased patients appearing on ñwork-listòlist views and reports.

In 7.9.32, if the system is unable to stop a Treatment Plan, DAWN does not mark the patient as deceased. Instead it displays a message box describing the issue and the steps you need to do take to resolve it.

Once common reason for DAWN failing to stop Treatment Plans automatically is that the Treatment Plan requires a Cessation Reason. Version 7.9.32 treats this as a special case and automatically assigns a Cessation Reason of ñPatient Deceasedò to the Treatment Plan. It can then stop the plan and mark the patient record as deceased successfully. If you have an existing Cessation Reason with slightly different wording (for example ñDeceasedò) that you would like use instead, you can configure the system to use this wording by changing the new *TreatmentPlan_DeceasedCessationReason* system setting.

Changes Affecting the Anticoagulation Base Module

Dosing Instructions ï Show Total Mg in Decimals Whilst Showing Tablets in Fractions

In previous versions of DAWN you could show day pattern dosing instructions in fractions:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (1 mg)	1	½	½	½	½	½	½
Pills (3 mg)							
Pills (5 mg)	1	1	1	1	1	1	1
Total mg	6	5½	5½	5½	5½	5½	5½

é or decimals:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (1 mg)	1	0.5	0.5	0.5	0.5	0.5	0.5
Pills (3 mg)							
Pills (5 mg)	1	1	1	1	1	1	1
Total mg	6	5.5	5.5	5.5	5.5	5.5	5.5

In version 7.9.32 it is possible to create tablet instructions, which include a **Total mg** line, with the tablets in fractions, but the Total mg in decimals:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
Pills (1 mg)	1	½	½	½	½	½	½
Pills (3 mg)							
Pills (5 mg)	1	1	1	1	1	1	1
Total mg	6	5.5	5.5	5.5	5.5	5.5	5.5

What's New in DAWN CF v7.9.31

Changes Affecting the Clinical Framework Base System

Fix to fault with custom modules that update the Patient Screen

The non-VKA module for managing novel anticoagulants, such as dabigatran, and the recent add-on for Rheumatology, which looks up the current DMARD and/or Anti-TNF drugs from the drugs tab and displays these on the main patient screen, both make use of custom modules. In previous versions these modules could occasionally report a spurious error ñObject does not support this property or method: pContext.webformò or ñObject does not support this property or method: pContext.datasetò. We have rewritten the way that the custom-modules are invoked to prevent this from happening.

Changes Affecting the Chronic Disease Monitoring Base Module

Support for the new rivaroxaban module

The non-VKA module for managing novel anticoagulants has been updated to support the initiation assessment and follow up review for rivaroxaban therapy. You can buy the rivaroxaban and dabigatran modules as individual add-ins to your main system. Version 7.9.31 includes some small behind-the-scenes enhancements to support some of the rivaroxaban-specific features.

What's New In DAWN CF v7.9.30

Changes Affecting the Clinical Framework Base System

New Drug Local Code Field

A new local code can now be entered for each drug in DAWN. This is intended to hold the code from your own hospital computer systems and is used by the optional medications interface that can automatically add the details of which drugs a patient is taking.

Referral And TreatmentPlanTeamMember Screens Automatically Closed

When you move to a different patient on the main patient screen in DAWN, if the Referral or TreatmentPlanTeamMember screen is open they will automatically close. This is because they would be showing information for the previous patient that you were viewing. It is vital that you do not become confused about which patientôs referrals or team memebers you can see.

Changes Affecting The Chronic Disease Monitoring Base Module

Enhancement To Automatically Moving Patient To Their Next Appointment

Since v7.9.20, DAWN has been able to automatically move selected patients onto their next appointment if the patient has any required results checked or not flagged. The rules for making a next appointment have been relaxed so that this can now happen if the patient's latest test results are late.

What's New In DAWN CF v7.9.29

Changes Affecting the Clinical Framework Base System

Warning Shown When Next Appointment Is Not Scheduled

If DAWN is not able to automatically schedule a patientõs next appointment into the clinic diary, it shows the diary page for you to choose and alternative appointment time or date. If you donõt chose an alternative time or date and click the Cancel button then DAWN will show a warning message to remind you that the appointment has not been entered into the diary.

What's New In DAWN CF v7.9.28

Changes Affecting the Clinical Framework Base System

Password Reset Enhancements

The temporary passwords created by DAWN are now easier to remember and type. These passwords are now 6 characters long and only contain numbers (2-9) and lower case letters (other than g, i, j, l, o, p and q).

The buttons on the HCProfessional screen used to reset a password and then create a new one are now labelled "Click to reset existing password for user" and "Click to create a new password for user".

When you have created a password on the HCProfessional screen, the message that displays the new password now also has a reminder to tell to the user that they need to change their password the first time they log in to DAWN.

What's New In DAWN CF v7.9.27

Changes Affecting the Clinical Framework Base System

NHS Number Compliance

For UK customers, DAWN can now be set to enforce compliance with NHS directives governing mandatory using of the NHS number. DAWN now offers two levels of compliance - "Validate & Verify Only" or "Full Compliance". This can be controlled via a new screen on the system menu.

When either level of compliance is enabled:

- A drop down list of verification states is displayed below the NHS number on the main patient screen.

- Whenever an NHS number is entered or amended, DAWN checks that it is a valid NHS number. If it is valid then the number is re-formatted into the 3 3 4 format. It is no longer possible to save invalid NHS numbers.

- The NHS number appears in the title of the patient screen, on the patient search screen and in other screen titles that display patient identifiers such as Treatment Plans, Treatment records and the Message Center.

- When searching for a patient, you can enter the NHS number with or without spaces.

If "Full complianceö is enabled then the NHS number only appears in reports, letters, emails or outbound interface messages if the status is "Number present and verified"

If compliance is not enforced, DAWN 7.9.27 works exactly the same as previous versions with regard to entry and use of the national number.

Changes Affecting the Anticoagulation Base Module

Enhancement To Ensure Compatibility With Internet Explorer v9

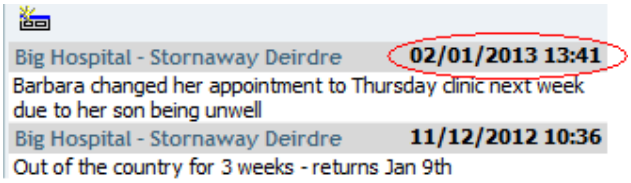
In previous versions of DAWN, dosing instructions which include a Total Mg line are not displayed correctly in the history when using Internet Explorer v9. The column for the first day of the week takes up a disproportionate amount of column space, forcing the remaining days to be bunched up. This has now been corrected.

What's New In DAWN CF v7.9.26

Changes Affecting The Clinical Framework Base System

Date And Time In Quick Note Header Displayed In Black Text

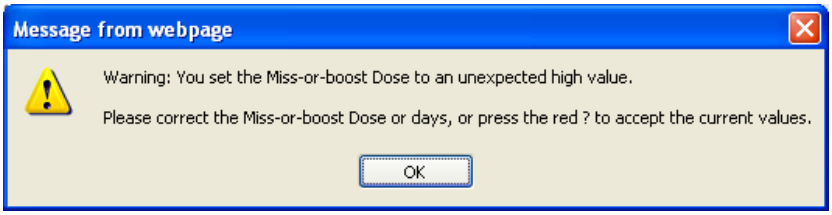
The date and time shown above each quick note on the main patient screen is now displayed in black rather than white, making it much clearer to see on the grey background:


Big Hospital - Stornaway Deirdre
02/01/2013 13:41
Barbara changed her appointment to Thursday clinic next week due to her son being unwell
Big Hospital - Stornaway Deirdre
11/12/2012 10:36
Out of the country for 3 weeks - returns Jan 9th

Changes Affecting the Anticoagulation Base Module

Enhancement To Warning For Miss Or Boost Doses

In DAWN v7.9.13 onwards, whenever a miss or boost dose is entered for a patient a warning that the miss or boost dose has been set to an unexpected high value is always displayed, regardless of the value in the system setting ôTreatment_MissOrBoostWarningPercentageTresholdô


Message from webpage
Warning: You set the Miss-or-boost Dose to an unexpected high value.
Please correct the Miss-or-boost Dose or days, or press the red ? to accept the current values.
OK

The warning is now shown only when the percentage difference between the normal dose and the miss or boost dose does actually exceed the value in the system setting.

Changes Affecting The Chronic Disease Monitoring Base Module

Enhancements To Drug Templates

Options for adding drug doses under the Interventions panel have been re-designed. Please contact support@4s-dawn.com for advice if you already use this option for dosing drugs such as erythropoietin, methotrexate, etc. The main changes are:

Drug Templates Require Activation Before Being Used

Drug templates now have a status, which is set to 'New' when the template is first created. Drug templates must now be activated before they can be used for dosing. When the drug template is activated (via a new 'Activate' button) the settings for the template are validated. If any of the validation checks fail then the drug status is not updated to 'Active' To make changes to an active drug template, the template must be put into maintenance mode via a new 'Maintain' button.

Drug Template Settings

The drug template settings screen is now only accessed via the Drug screen under Lookup tables in the System menu. This ensures that all templates listed are for the current drug only.

A drug template must have dose units selected before being activated. Available dose units are defined on a separate Drug Dose units maintenance screen.

Drug Templates Can Have Multiple Instruction Lines Defined

Drug templates for drugs such as erythropoietin and methotrexate can now optionally have one or more pre-defined dosing instruction lines entered. Each dosing instruction line must have a text description (e.g. '3 capsules Mon + Fri, 2 capsules on other days') and an associated numeric dose entered

If instruction lines have been defined, then a patient being dosed with that drug template can only have a dose selected from one of those instructions lines ï it is not possible to manually enter a dose or instruction unless another template is chosen.

For each dosing instruction line an optional patient friendly description can be entered for use in letters sent to the patient and an optional alternative description can be entered for, say, letters sent to a pharmacist.

A template with instruction lines must also have between one and 3 dose ranges entered. A dose range defines a minimum and maximum dose and the maximum step between doses allowed on dosing instruction lines in that dose range. This helps ensure you have not missed a dose when adding settings. An error will show on activation is you have missed a dose.

Drug Templates With A Fixed Dose Defined

A drug template can have a fixed dose entered. A patient being dosed with that drug template will always have that drug dose entered ï it is not possible to manually enter a dose or instruction unless another template is chosen.

Drug Templates Allowing Doses Or Instructions To Be Manually Entered

A drug template can be created with no fixed dose and no instruction lines. A patient being dosed with that drug template can have either a numeric dose or a text dosing instruction entered manually.

Minimum and maximum doses must be entered. Each numeric dose manually entered for a patient being dosed with that drug template must be between those minimum and maximum values.

Enhancements To Drugs Within Therapy Templates

Previously it was possible to carry forward doses within a patient record using an óAuto-repeatô checkbox on the PatientIntervention screen. This feature has been replaced by settings on the TherapyTemplate screen to allow doses to be chosen and carried forward for all patients on such a therapy.

Default Drug Template On Drug Intervention Templates

One of the drug templates for the selected drugs can be chosen as the default set of doses for patients on this therapy.

óRemember Dose Given Last Time For Patientó Setting On Drug Intervention Templates

If the setting óRemember Dose Given Last Time For Patientóis selected then any patients on this therapy will have the dosing information automatically set to the values used in the patientôs previous set of results within the current treatment plan.

Enhancements When Entering Drug Doses For A Patient

Selection and approval of a drug dose has been simplified by several screen enhancements including the removal of all unused fields, allowing the frequency and duration fields to be optionally hidden and the addition of onscreen help.

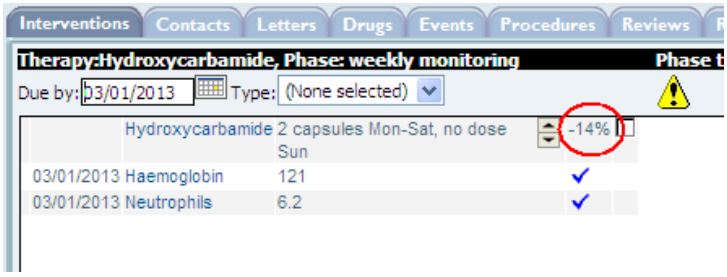
Selection Of Drug Instructions

If the selected drug template has instruction lines defined then an initial instruction line can be selected from a drop down list on either the PatientIntervention screen or on the Interventions tab of the main patient screen. Once an instruction line has been selected, the drop down list is no longer displayed. Both screens then allow the selected instruction line to be changed by clicking either an up arrow (to select the instruction line with the next highest dose) or a down arrow (to select the instruction line with the next lowest dose).

Percentage Dose Change

A percentage dose change is displayed next to the drug dose if the current dose is different from the dose for this drug in the patientôs previous set of results.

The percentage can be calculated only if the current and previous doses both have the same dose units.



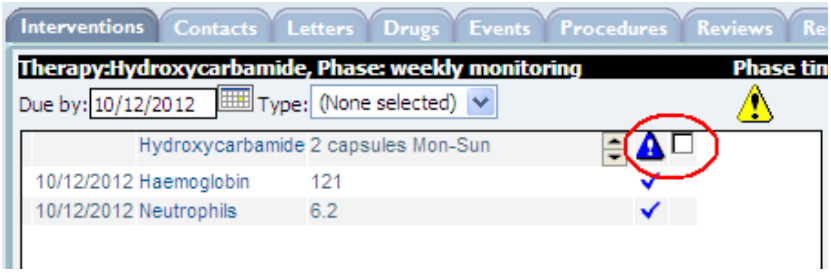
Drug Dose Warnings

A warning icon and a checkbox are shown next to the drug dose on the Interventions tab of the main patient screen if:

- The dose units are different from the dose units used for this drug in the patient's previous set of results
- The current dose means there is a percentage dose change
- No numeric dose has been entered
- This is the first dose entered for this drug on the current treatment plan

Hovering the mouse pointer over the icon displays a popup with information on why the warning icon is being shown.

Any dose with such a warning displayed must be reviewed (by checking the checkbox) before the set of results can be closed.



Enhancements To History Tab

The result history tab on the main patient screen can now optionally also show drug doses. This option is available individually for each disease area and is activated by selecting 'Show Drugs In History' on the disease area maintenance screen. The history now includes ALL review notes entered up to 3 months before the start of the current treatment plan. Previously, only the review notes up to the start of the current treatment plan were shown.

Diagnosis Date On Main Patient Screen

The diagnosis date of the patient's primary diagnosis is now displayed in the top left of the main patient screen.

Increased Width Of Therapy Template And Preferred Clinic fields On Treatment Plan Screen

The drop down lists for therapy template and preferred clinic on the treatment plan screen are now wider to allow the full therapy template and clinic names to be visible

What's New In DAWN CF v7.9.25

Changes Affecting the Anticoagulation Base Module

Dabigatran and non-VKA monitoring module

Version 7.9.25 supports an optional new extension to the anticoagulation module that enables you to monitor patients on non-vitamin-K antagonist anticoagulants such as dabigatran.

New anticoagulation look up tables allow you to define certain diagnoses as therapeutic indications for specific anticoagulants and certain risks as additional qualifying factors. You can also categorise risks or drugs as contraindications or specific haemorrhagic or thromboembolic risks for a particular anticoagulant.

You can define dosing regimes for non-VKA anticoagulants which use fixed doses such as 150 mg twice daily or 220 mg once daily as opposed to sets of dosing instructions. You can then define which

regimes are permitted for which therapeutic indications (diagnoses) and which is the default or normal dose.

Initiation and follow up monitoring is achieved by means of specialist questionnaires which display lists of contraindications, interacting drugs and specific risks together with relevant tests and scores including risk assessment mechanisms such as the CHA2DS-2VASC and HASBLED scores and the ability to calculate an estimation of renal function using the Cockcroft-Gault formula.

Initiation questionnaires are intended to help you identify whether a patient is suitable for the anticoagulant and, if so, help you to determine the most appropriate dose. When you activate a treatment plan for the anticoagulant, the dosing regime and diagnosis are automatically cross-checked with the initiation questionnaire to ensure there is no discrepancy and that they are both valid and compatible selections. You are prevented from activating a treatment plan if a contraindication has been identified on the questionnaire.

The follow up questionnaire is intended to identify new risks such as interacting drugs, compliance or adverse reaction issues, increasing age or change in renal function that may require a change in dose or cessation of therapy.

If you start a treatment plan for a non-VKA anticoagulant, the warfarin (and other VKA) dosing, history and graph tabs are hidden and the questionnaires tab is selected by default.

You can purchase configurations for specific non-VKA anticoagulants. The configuration for dabigatran is available now and includes, pre-configured look up tables for approved therapeutic indications, risks, drug interactions and contraindications. The configuration also includes dabigatran-specific initiation and follow up questionnaires and settings to ensure all the required automatic validation and cross-checking takes place when you activate a treatment plan. The configuration also includes a non-VKA monitoring list view and report to check all patients are on an appropriate dose.

What's New In DAWN CF v7.9.24

Changes Affecting The Clinical Framework Base System

Quick Note For GP Updates Now Optional

DAWN v7.9.7 introduced automatically adding a quick note when a patient's referring GP is selected (or updated) in DAWN. This quick note is now optional and can be disabled using the new system setting 'Patient_InsertGPAndConsultantQuickNote'. On upgrading to v7.9.24 this system setting is set to 1 and so the quick notes will continue to be added until the setting is disabled.

Changes Affecting The Anticoagulation Base Module

Enhancement To Amending Dosing Instructions With The Cycle Button

Where a dosing instruction for a patient shows an odd dose on one or more days (e.g. 5½ mg on Wed and 5 on all other days) you can use the cycle button to move the dose for each day back one increment at a time (e.g. Wed --> Tue, Tue--> Mon, Mon-->Sun, Sun--> Sat etc). In DAWN v7.7 onwards this modified pattern failed to be carried forward to future treatment records. This has now been corrected.

Changes To Automatic Switch To Manual/Bridging Therapy

Version 7.9.5 included several changes aimed at detecting when a patientôs doses and intervals appear to be outside the scope of the normal maintenance dosing and then either switching the patient to manual dosing or taking other actions such as disabling automatic dose calculation to mitigate the risk. Several of these changes have now been updated:

Automatic Dose Calculation Allowed If Interval Before Last < 7 Days

Automatic dose calculation is now allowed if the interval before last is less than 7 days and the warning "Previous test interval was less than 7 days" is added to the list of warnings on the patient screen. This had been prevented in v7.9.5 onwards

Configuration Of Automatic Switch To "Manual/Bridging" Therapy

The automatic switching of patients to "Manual/Bridging" therapy can now be controlled via the new system setting ôTreatment_SwitchToManualDosing_Thresholdô If this is set to zero, DAWN works as it did in v7.9.5 i.e. the patient is switched to "Manual/Bridging" therapy if a dose change is entered that exceeds the maximum percentage change allowed for the patient's treatment plan or 25% (whichever is the lower threshold).

If the system setting ôTreatment_SwitchToManualDosing_Thresholdôis set to greater than zero, then patients are switched to "Manual/Bridging" therapy if a dose change is entered that exceeds that value.

On upgrading to v7.9.24 this system setting is set to 0 and so automatic switching of patients to "Manual/Bridging" therapy will still work as per v7.9.5

Treatment Note On Switch To "Manual/Bridging" Therapy Now Optional

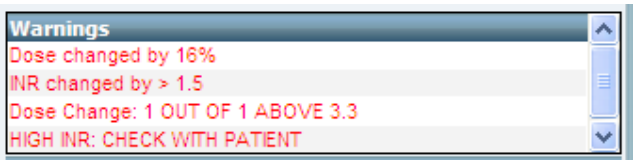
The treatment note that is added when a patient is switched to "Manual/Bridging" therapy is now optional and can be disabled using the new system setting ôTreatment_SwitchToManualDosing_TreatmentNoteô On upgrading to v7.9.24 this system setting is set to 1 and so the treatment notes will continue to be added until the setting is disabled.

What's New In DAWN CF v7.9.23

Changes Affecting The Anticoagulation Base Module

Enhancement To INR And Dose Change Warnings

When a dose is entered that causes the dose change percentage to exceed the TargetRange setting ôAlarmDoseChangePercentô, a dose change warning is included in the list of Warnings in the top right of the dosing panel on the patient screen. In previous versions of DAWN the wording of this warning was ñDose changed by > 15%ò, where 15% is the TargetRange setting ôAlarmDoseChangePercentô This warning now gives the actual percentage dose change, as shown below:

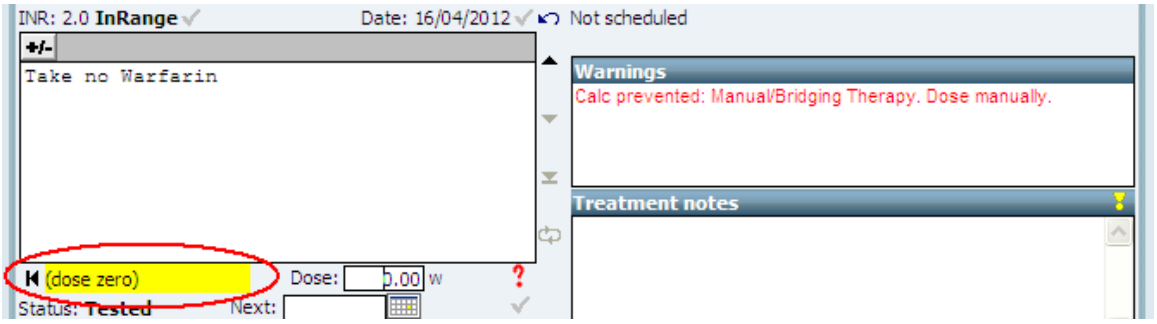


This dose change warning is now always displayed at the top of the warnings list.

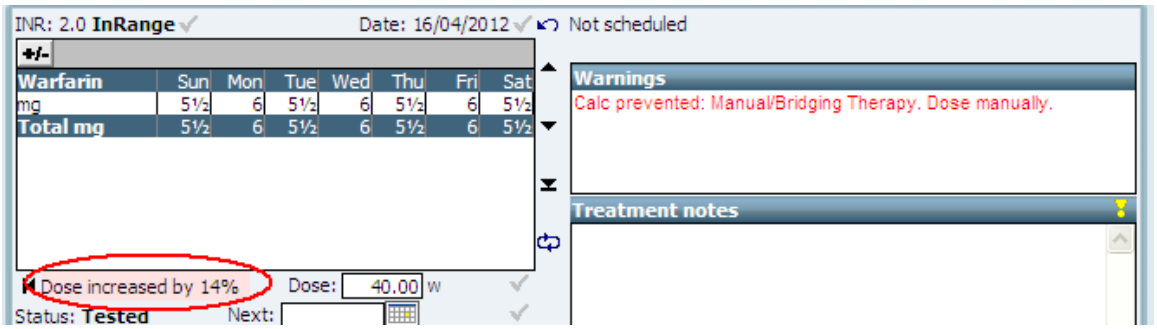
The INR change warning (ñINR changed by 1.5ò where 1.5 is the TargetRange setting óAlarmINRchangeô) is now always displayed second in the list of warnings

Enhancement To Dose Change Percentage Indicator

The percentage increase/decrease in dose is displayed below the dosing instruction on the dosing panel on the patient screen. If DAWN has been unable to calculate a dose and patient has to be manually dosed then this text has a yellow background:



When the patient was manually dosed in previous versions of DAWN, even if there was a dose change this text continued to be shown with a yellow background. This has now been changed so that the background colour becomes a darker shade of red with a percentage increase in dose change or a darker shade of blue with a percentage decrease in dose change (as happens when DAWN suggests a dose):



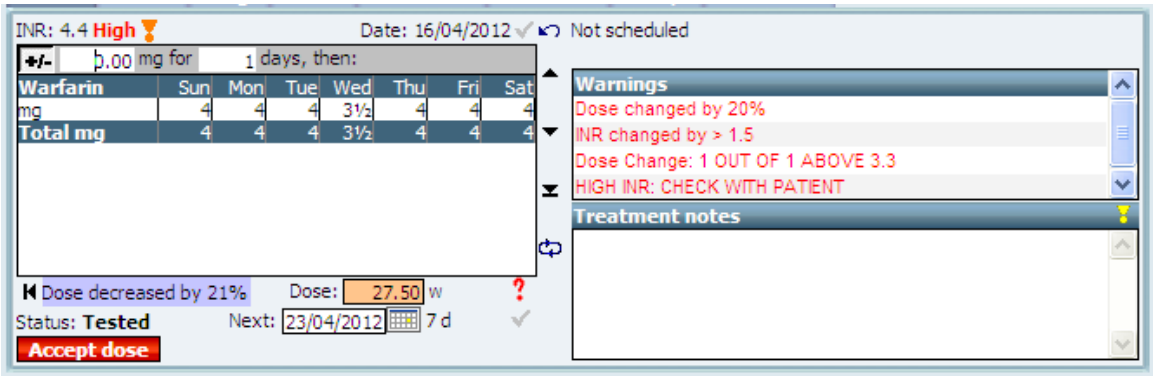
Change To Colour Of Acknowledged Alerts

Any alerts (red question marks) can be acknowledged by clicking on them, changing them to an exclamation mark. In previous versions of DAWN, a red exclamation mark was shown. This is now an orange exclamation mark.

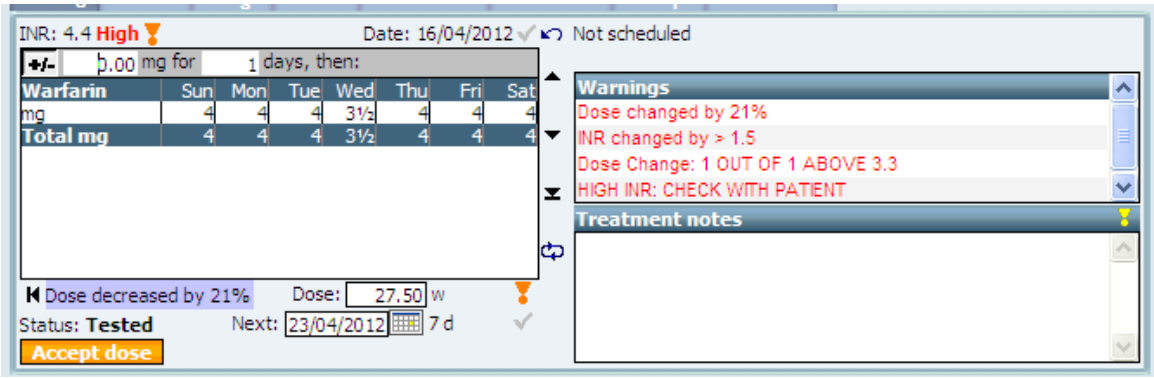
Colour Coded Accept Dose Button

The colour of the Accept Dose button now changes depending on the presence of acknowledged or un-acknowledged alerts.

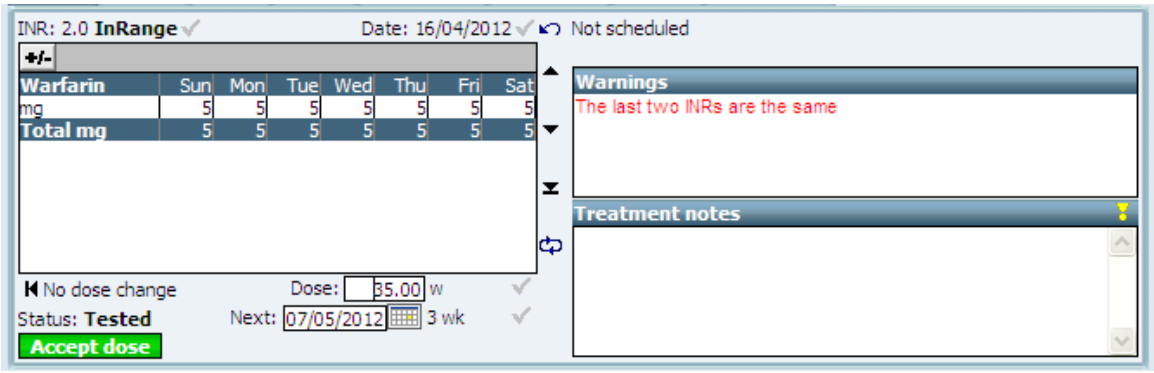
When there are un-acknowledged alerts (red question marks) the Accept Dose button will be red:


INR: 4.4 High
Date: 16/04/2012
Not scheduled
+/- 0.00 mg for 1 days, then:
Warfarin Sun Mon Tue Wed Thu Fri Sat
mg 4 4 4 3½ 4 4 4
Total mg 4 4 4 3½ 4 4 4
Warnings
Dose changed by 20%
INR changed by > 1.5
Dose Change: 1 OUT OF 1 ABOVE 3.3
HIGH INR: CHECK WITH PATIENT
Treatment notes
Dose decreased by 21%
Dose: 27.50 w
Status: Tested
Next: 23/04/2012 7 d
Accept dose

When all alerts have been acknowledged, and are now shown as orange exclamation marks, the Accept Dose button will be orange:


INR: 4.4 High
Date: 16/04/2012
Not scheduled
+/- 0.00 mg for 1 days, then:
Warfarin Sun Mon Tue Wed Thu Fri Sat
mg 4 4 4 3½ 4 4 4
Total mg 4 4 4 3½ 4 4 4
Warnings
Dose changed by 21%
INR changed by > 1.5
Dose Change: 1 OUT OF 1 ABOVE 3.3
HIGH INR: CHECK WITH PATIENT
Treatment notes
Dose decreased by 21%
Dose: 27.50 w
Status: Tested
Next: 23/04/2012 7 d
Accept dose

When there are no alerts the Accept Dose button will be green:



What's New In DAWN CF v7.9.22

Changes Affecting The Chronic Disease Monitoring Base Module

Prevent Deletion Of Patient Groups With Members

In previous versions of DAWN, it was possible to delete a Patient Group even if the group contained patients. No warning was displayed ï the group was deleted and all record of which patients were members was lost. DAWN has now been enhanced so that a group cannot be deleted until all members have been removed.

Prevent Deletion Of Teams With Members

In previous versions of DAWN, it was possible to delete a Team even if the team contained HC Professionals. No warning was displayed ï the team was deleted and all record of which HC Professionals were members was lost. DAWN has now been enhanced so that a team cannot be deleted until all members have been removed.

Prevent Deletion Of HC Professional Selected As A Team Member

In previous versions of DAWN, it was possible to delete an HC Professional who was selected as a team member in the Treatment Plan for one or more patients. No warning was displayed ï the HC Professional was removed as a team member from these Treatment Plans and then deleted. DAWN has now been enhanced so that an HC Professional cannot be deleted if selected as a team member in a Treatment Plan.

Prevent Deletion Of Questionnaire Types Used in Questionnaires

In previous versions of DAWN, it was possible to delete a Questionnaire Type even when that type was used in Questionnaires. No warning was displayed, the type was deleted and all questionnaires of that type were deleted. DAWN has now been enhanced so that a type cannot be deleted if there are questionnaires of that type.

What's New In DAWN CF v7.9.21

Changes Affecting The Anticoagulation Base Module

Control Adding And Editing On Treatments Via User Profile

A new user profile setting "Add/Edit Treatment Records" has been added to control whether users are allowed to add or edit Treatment records for patients. This setting is initially set to True for all user profiles and so after upgrading it is important to disable the setting for any user profiles where the ability to add or edit Treatments is inappropriate.

Enhancement To Date Handling When Entering INR History

In previous versions of DAWN, depending on the user's regional settings, it was possible for an error to be displayed when entering INR history for certain dates. This has now been corrected.

What's New In DAWN CF v7.9.20

Changes Affecting The Anticoagulation Base Module

HTML Style Dosing Instructions

In previous versions of DAWN, if an HTML style dosing instruction had been customised (by altering the days of the week on which each dose is taken but keeping the total dose the same) and then an out of range INR is entered at the next appointment, then the error "ERROR: DayPattern chosen for this instruction, but no tablets are chosen for the Regime" was displayed. This has now been corrected

Changes Affecting The Chronic Disease Monitoring Base Module

Move Patients To Next Appointment Automatically

Once a patient has a full set of in-line results (not flagged), DAWN may now be set to automatically move the patient onto their next appointment. This is intended to speed up the process of dealing with patients results when they do not need a review.

By default this feature is deactivated. Once the feature is activated, the therapy template and risk class for your patient must both be set to allow this.

All of the checks that are made when clicking on the existing close button on the patient screen are still made for each patient automatically moved onto their next appointment (that is, there must be a full set of unflagged or checked results in the appropriate date range and no pending referrals).

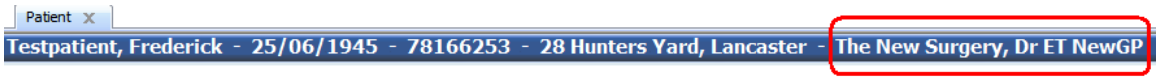
Use of this feature requires careful consideration of the trend / action limit settings and regular review of DAWN workload statistics. Please contact 4S if you wish to make use of this.

What's New In DAWN CF v7.9.19

Changes Affecting The Clinical Framework Base System

Caption On Patient Details Screen

The caption at the top of the main patient screen now allows for a user definable field to be included as shown in the example below.



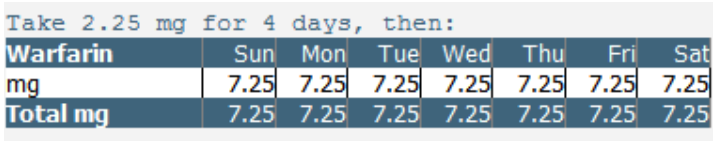
A new system setting (PatientForm_Caption_Field) has been introduced to define which field is to be displayed in the patient caption and can be set to show address line 2, GP, consultant or laboratory. If set to GP, consultant or laboratory, the details are taken from the treatment plan currently being viewed.

The last name, first name, date of birth, unit/national number, address line 1 and town are always displayed in the caption.

Changes Affecting The Anticoagulation Base Module

HTML Style Dosing Instructions

The system now has the option to display HTML style dosing instructions in decimals as shown in the example below.

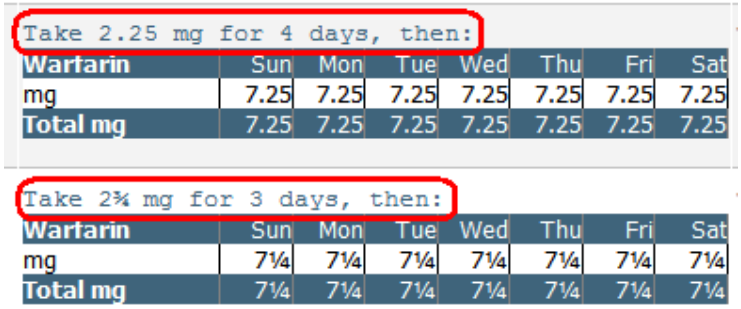


Take 2.25 mg for 4 days, then:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
mg	7.25	7.25	7.25	7.25	7.25	7.25	7.25
Total mg	7.25	7.25	7.25	7.25	7.25	7.25	7.25

A new system setting (AC_DisplayDosingInstructionsInDecimals) has been introduced to define whether the HTML style instructions should be displayed in fractions or decimals.

Previously, miss or boost doses were always displayed in decimals. This has now been changed to display them in the same format as the dosing instructions as shown in the example below.



Take 2.25 mg for 4 days, then:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
mg	7.25	7.25	7.25	7.25	7.25	7.25	7.25
Total mg	7.25	7.25	7.25	7.25	7.25	7.25	7.25

Take 2¾ mg for 3 days, then:

Warfarin	Sun	Mon	Tue	Wed	Thu	Fri	Sat
mg	7¼	7¼	7¼	7¼	7¼	7¼	7¼
Total mg	7¼	7¼	7¼	7¼	7¼	7¼	7¼

What's New In DAWN CF v7.9.18

Changes Affecting The Clinical Framework Base System

Production Of Letters & Messages

From v7.9.15, if an error was encountered during the production of a message, the content of the message would not be generated from the point at which the error occurred. This has now been fixed to ensure the whole of the message is generated with the data field(s) that caused the problem being left blank.

Changes Affecting The Anticoagulation Base Module

Inbound INR Interface

From v7.9.16, if the inbound INR interface was unable to register the INR, the message appeared in the Hold Monitor with an incorrect description. This has now been fixed to ensure the correct description is reported in the Hold Monitor

What's New In DAWN CF v7.9.17

Changes Affecting The Clinical Framework Base System

Ordering of Questionnaires

In previous versions of DAWN, the Questionnaires tab on the patient screen listed questionnaires for the patient with the oldest at the top and the most recent at the bottom. In v7.9.17 onwards, questionnaires are displayed with the most recent at the top, making it easier to find the latest answers and scores.

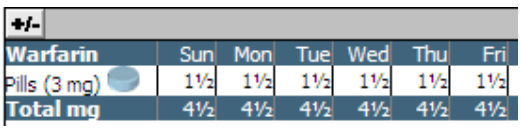
Messages are Processed in the Order They Were Created

In previous versions of DAWN, while most messages (letters, emails and outbound interface messages) were processed in the order they were created, messages created within the same minute could be processed in any order. This does not usually matter if the message is a letter or an email but can cause problems with outbound interface messages triggered in response to certain actions like updating and stopping a treatment plan. If the external system receives an update message after a stop message, it may incorrectly assume the Treatment Plan has been reactivated. In 7.9.17 messages are always processed in the order they were created, even if they are created within the same minute.

Changes Affecting The Anticoagulation Base Module

Fault with the Total Mg line and European Decimal Format

From version 7.7 onwards it is possible to include a Total Mg line with a dosing instruction expressed in tablets. This can be useful if the tablet strength is not 1mg or if multiple tablet strengths are used. For example:



+/-						
Warfarin	Sun	Mon	Tue	Wed	Thu	Fri
Pills (3 mg)	1½	1½	1½	1½	1½	1½
Total mg	4½	4½	4½	4½	4½	4½

However, if you changed the DAWN International Settings in line with European convention and specified a comma rather than a full stop (or period) as the decimal character (for example 4,5 instead of 4.5), the Total mg did not recognise the comma as the decimal indicator and could display the wrong dose. This fault is corrected in 7.9.17, where the Total Mg line displays the correct dose whichever character you use as the decimal indicator.

What's New In DAWN CF v7.9.16

Changes Affecting The Anticoagulation Base Module

Automatic Rescheduling Of Non-Attending Patients

In previous versions of DAWN, the automatic rescheduling of non-attending patients from the Non-Attendance list view would run for 60 seconds before simply timing out and stopping. New functionality has now been added to help ensure the processing does not timeout and stop midway through processing a patient. A new message will also be displayed to the user to inform them that not all the patients could be rescheduled in the allocated time and that they should click the Reschedule button to reschedule the remaining patients.

Changes Affecting The Chronic Disease Monitoring Base Module

Help Files

The section headed ñWorkflows in DAWN ï an overviewòhas been updated.

What's New In DAWN CF v7.9.15

Changes Affecting The Clinical Framework Base System

Production Of Letters & Messages

In 7.9.13 we made some mistake proofing changes to the production of dose letters. Unfortunately, a side effect of these changes was a problem whereby on rare occasions, message templates that included processing to manipulate date-type fields that were blank in DAWN (e.g. a blank date of death) were not being created. This has now been fixed.

Performance Improvement

Improvements have been made to help speed up the display and refresh of the front screen.

Changes Affecting The Anticoagulation Base Module

Automatic Rescheduling Of Non-Attending Patients

When automatically rescheduling your non-attending patients from the Non-Attendance list view, any patients that were originally given an interval of less than 7 days between appointments are no longer automatically rescheduled. Following the automatic rescheduling, these patients will remain in the list of non-attending patients and a message will be displayed warning the user that these patients should be manually rescheduled.

Performance Improvement

Improvements have been made to help speed up the creation of letters containing Treatment related information.

Help Files

In previous versions of DAWN, the Anticoagulation help files included information for other chronic disease monitoring applications (e.g. Growth Factors). This information has now been moved into a separate, more comprehensive manual for non-ac applications

What's New In DAWN CF v7.9.14

Changes Affecting The Clinical Framework Base System

Enhancement When Multiple Users Attempting To Delete Same Record

In previous versions of DAWN, if more than one user attempted to delete a record at the same time (for example, a patient's Anticoagulation Treatment record) it was possible for more records to be deleted then was intended.

For example, 2 users are viewing the latest Treatment record for a patient and one of the users deletes this Treatment. If the second user also then tries to delete the Treatment, DAWN incorrectly deleted the patient's *previous* Treatment record.

This problem is now prevented – when the second user presses delete the screen will just be refreshed rather than any actual deletion being performed.

Changes Affecting The Chronic Disease Monitoring Base Module

Case-sensitive Test Names

It is now possible to optionally configure DAWN to treat test names as being case-sensitive. For example, it is possible to create separate test definitions called 'Hemoglobin' and 'HEMOGLOBIN'. In previous versions this would be prevented.

This change also applies to the optional test aliases that can be entered to allow the inbound test result interface to find the correct test definition in DAWN.

For example, the DAWN laboratory interface will now be able to distinguish between 'F..' for Alkaline phosphatase and 'f..' for Glucose

Test names and aliases remain as case-insensitive by default following an update to this version of DAWN. They can be made case-sensitive via the new system setting 'CaseSensitiveTestNames'

A new screen to allow all current test aliases to be viewed is now available by selecting Normal Tables -> TestAlias from the System Menu.

What's New In DAWN CF v7.9.13

Changes Affecting The Clinical Framework Base System

Manual Production Of Letters And Custom Messages

A user can no longer produce a direct print or send a custom message containing treatment-related information where the following conditions are met:

- The document or custom message has been defined with a mail merge type of 'PatientWithUnfilteredTreatments'

- An INR has been entered but the dose has not been authorised and the next appointment created.

Under such circumstances, an error message will be displayed informing the user to accept the dose and create the next appointment before attempting to print the document or send the message.

Increase In Fax Number Length

The following DAWN fields now allow up to 50 characters to be stored:

Health Authority fax number
Healthcare Professional fax number
Organisation fax number

What's New In DAWN CF v7.9.12

Changes Affecting The Chronic Disease Monitoring Base Module

Automatic Update Of The Recommended Next Test Date

The recommended next test date is now automatically updated when a test result is entered (either manually or via an interface) and that result is the most recent result for the patient

If the date of the result is within an acceptable range of the due by date then the recommended next test date is set to the due by date + the normal interval for the patient's therapy

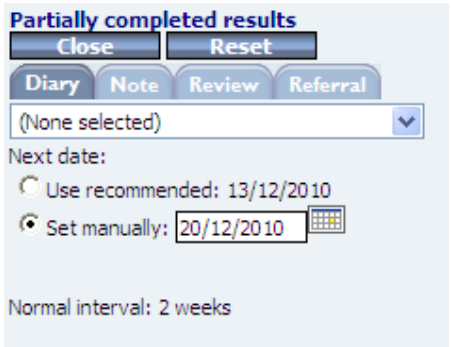
If the date of the result is NOT within an acceptable range of the due by date then the recommended next test date is set to the date of the result + the normal interval for the patient's therapy

However, if the difference between the dates of the earliest and latest tests is greater than the acceptable range then the recommended next test date is left blank.

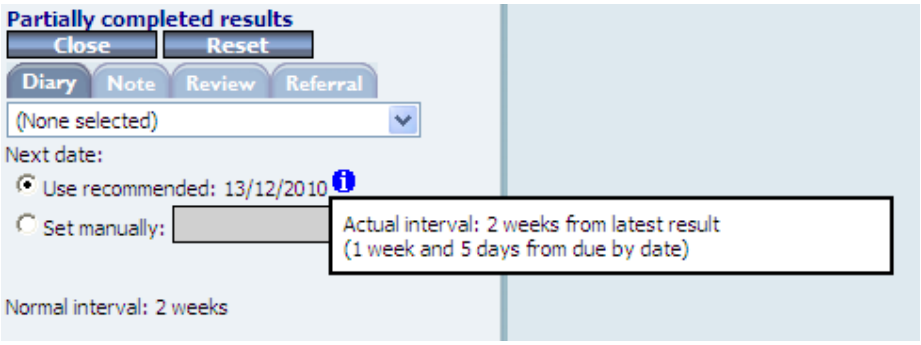
For example, if the normal interval for the patient's therapy is 2 weeks and a result is received with a date that is within 5 days of the due by date then the due by date is used to determine the next text date. If the result date is more than 5 days after the due by date then the result date is used to determine the next text date.

Redesigned Options For Selecting Next Test Date

There are now 2 options for choosing the next test date – either the recommended next date as determined by DAWN can be used or a date can be manually entered:



When the ôUse recommendedôoption is selected an information icon is also shown. Hovering the mouse pointer over the icon displays a popup with information on the interval between the current date and the next date:



Automatic Activation Of First Available Phase

The first available therapy phase is now automatically activated when the Treatment Plan is activated or re-activated.

Previous Phase Automatically Finished When New Phase Activated

Options to finish or skip a therapy phase are no longer required as the active phase is now automatically finished when another Phase is activated or the Treatment Plan is stopped.

See below for changes to correctly show result history and to stopping a treatment plan (introduced in v7.9.10.1 after v7.9.11).

What's New In DAWN CF v7.9.11

Changes Affecting The Clinical Framework Base System

Speed Improvement When Referencing Questionnaires In Letters

We have added indexes that should improve the performance of certain reports and letters that pull information from questionnaires.

Enhancement To Customisable Field Names

The customisable field names that can be entered for:

- Unit Number
- National Number
- Town
- County
- Postcode

are now used when the patient screen is showing a list of patients. Previous versions of DAWN used the customisable field names only when the displaying the details for a single patient.

Changes Affecting The Chronic Disease Monitoring Base Module

Suspend Option Removed From Chronic Disease Treatment Plans

It is no longer possible to ósuspendôa chronic disease Treatment Plan. This has been removed as this status prevents test results being imported into DAWN via the interface. Where a patientôs

treatment is being temporarily withdrawn but there is a need to still monitor test results for the patient, a new ôContinue Monitoringô Treatment Plan can be created.

Changes Affecting The Anticoagulation Base Module

Enhancement To INR And Dose Graphs

In previous versions, if you attempted to display the INR and dose graphs for a patient before you selected their target range, an error would occur. This has now been corrected.

What's New In DAWN CF v7.9.10.1

Changes Affecting The Chronic Disease Monitoring Base Module

Enhancement To Correctly Show Result History For Stopped Treatment Plans

Previously, in certain circumstances, the test result history on the History tab of the main patient screen could appear blank if you were looking at a stopped Treatment Plan.

Version 7.9.10.1 now always shows all test results received from 3 months prior to the start of the currently selected Treatment Plan until now, regardless of the status of the Treatment Plan. This makes it easier to review previous results.

NOTE: This change is **not** included in version 7.9.11

Enhancements To Stopping A Treatment Plan

On stopping a Treatment Plan (to change therapy), a series of checks are now performed before the Treatment Plan can be stopped:

If there are current results / notes / referrals, the user will be prompted to deal with these before the Treatment Plan can be stopped.

The latest appointment in a stopped treatment plan may contain planned drug or procedure interventions. DAWN will delete a current appointment with no current results / notes / referrals / drug / procedures / questionnaires on stopping the Treatment Plan.

Appointment and test result details in a stopped Treatment Plan are now read-only and cannot be edited unless the treatment plan is reactivated.

NOTE: This change is **not** included in version 7.9.11

What's New In DAWN CF v7.9.10

Changes Affecting The Clinical Framework Base System

Patient Screen Speed Improvement

We have made some changes to prevent the occasional slow speed at which the main patient screen loads.

Changes Affecting The Chronic Disease Monitoring Base Module

Therapy Template Filter On List Views

It is now possible to include a therapy template filter on list views ï allowing patients on a particular therapy to be easily found using a list view.

What's New In DAWN CF v7.9.9

Changes Affecting The Chronic Disease Monitoring Inbound Test Results Interface Module

Test Result Interface Speed Improvement

We have made some changes to increase the speed at which the inbound interface imports test results. In previous versions, importing test results made quite intensive use of system resources. On certain servers, this could potentially slow down the main DAWN application during busy periods. The new changes increase efficiency and reduce the load on the server,

which should decrease any adverse impacts a busy interface has on general system performance.

Changes Affecting The Chronic Disease Monitoring Base Module

Optimisation Of Standard List Views

Version 7.9.9 improves the speed of the standard list views supplied with DAWN. Please note - customised versions of the standard list views may not be as quick to display.

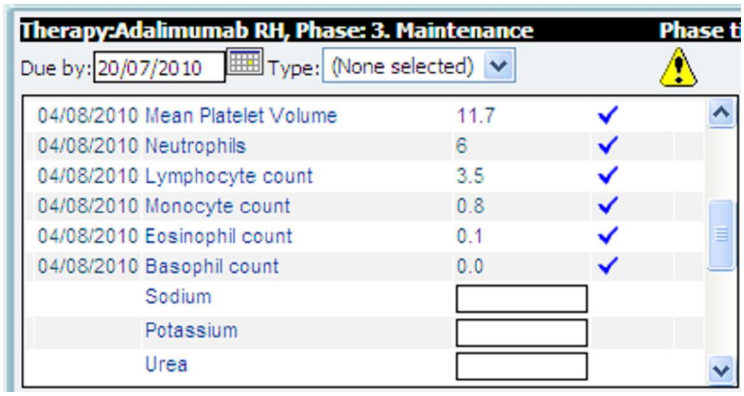
What's New In DAWN CF v7.9.8

Changes Affecting The Chronic Disease Monitoring Base Module

Redesigned Interventions Tab

DAWN allows you to plan tests for patients at regular intervals, monitor their test results and chase up patients who have not had tests when requested. However, in previous versions of DAWN, test results were displayed by the planned date rather than the actual date. If patients had their tests as planned, everything looked as you would expect, but if test results arrived significantly earlier or later than planned, it could cause confusion. One option was to adjust the planned date to match the actual test dates, which kept the display looking correct but made it more difficult to keep track of when tests were originally due.

In version 7.9.8, we have redesigned the way results are displayed to avoid these pitfalls.



The Interventions tab (in the top right hand corner of the patient screen) still shows the latest results for the patient's next set of planned tests, but now the actual test date is displayed beside each result. A separate **Due by date** is displayed at the top so you can see how early or late any current results are and see if any missing results are overdue.

Updating Interventions with the Latest Test Results

In previous versions of DAWN, only test results received within a specified number of days of the planned test date were displayed in the interventions panel and checked for out of line values or trends. In version 7.9.8 all new results are displayed in the Interventions panel and checked for out of line values or trends. If later results are received before you "close" this set of tests and schedule the next, they simply supersede the older results in the Interventions panel. All results now always remain visible in the history panel below (see Redesigned History Tab).

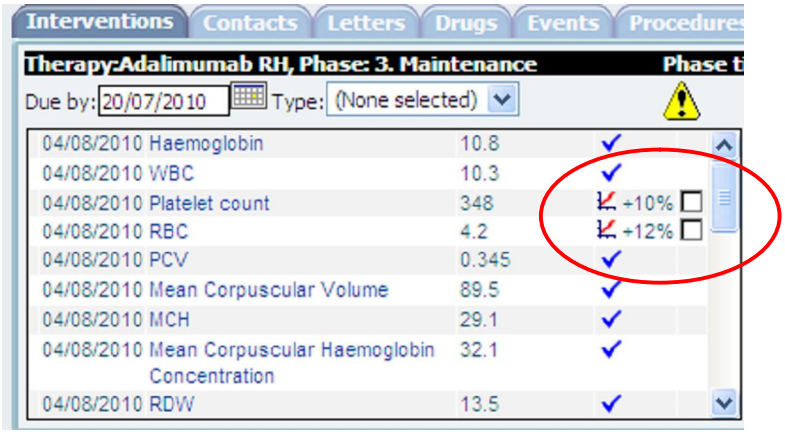
Dealing with Out of Line Results or Trends

In previous versions of DAWN you were obliged to write a review note to demonstrate you had reviewed any out of line results or trends that DAWN highlighted in the interventions tab. However, this assumed that all test results were received at the same time and could be reviewed together as a complete set. In many cases, results for different test groups arrive at different times.

Let us consider a scenario where a patient has full blood count, liver and renal function tests, but the full blood count results arrive a day before those for the liver and renal function tests. In previous versions, should the full blood count results include one or more out of line results, you might review these straight away and write a review note. However, if you were to leave this set of planned tests "open", as you have not yet seen the liver function results, the patient would remain on your list view for flagged or abnormal results. If you were to close this set of tests

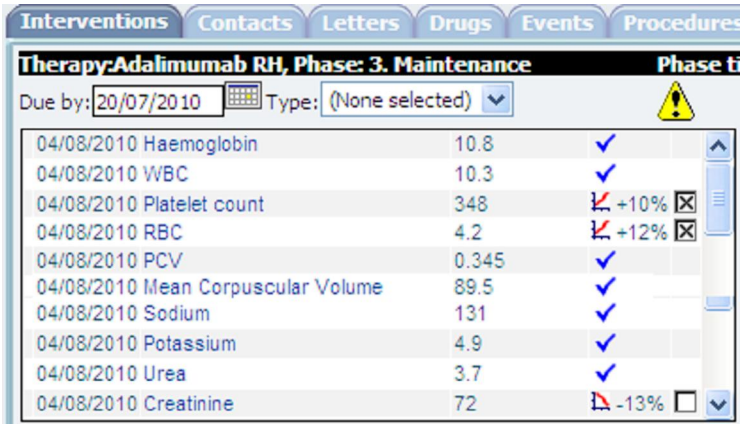
early, the liver and renal function tests would subsequently appear as early results for your next set of planned tests, which could be confusing.

In version 7.9.8, when an out of line or trend is detected, a checkbox appears against the result in the Interventions tab. When you have reviewed that individual result, you can tick (or ñcheckò) the checkbox to show that particular result has been reviewed. Your list view can be reconfigured to only display patients with ñuncheckedò out of line results or trends.



To revisit our scenario using 7.9.8, you would review the full blood count results and tick the checkboxes displayed against the individual out of line values. However, you would not close the set of tests as a whole prior to receiving the liver and renal function results. The patient would disappear from the Unchecked Out of Line Results list view once you had ticked the appropriate checkboxes for the out of line full blood count results.

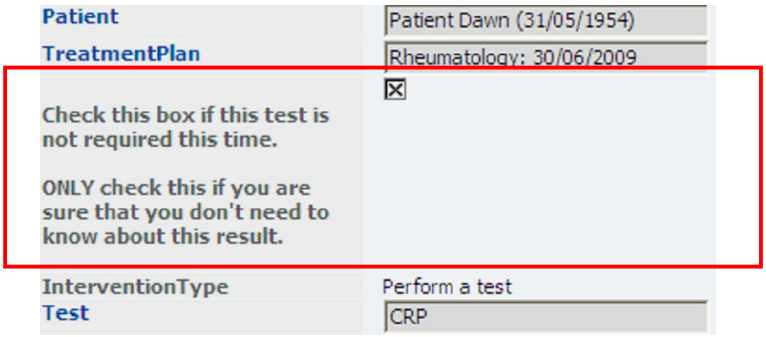
Later, when the liver and renal function test results arrive, they would be matched to the same set of tests in the Intervention tab. If any liver or renal function results are flagged as out of range or have trends detected, the patient would reappear in your Unchecked Out of Line Results list view. When you view their record, you would be able to see at a glance which out of line results or trends you had already looked at and which you had yet to review by whether or not the checkbox was ticked. In the example below, the Platelet and Red Blood Cell counts have been ticked but the Creatinine is yet to be looked at.



Suppressing Tests (Or Marking Tests As Not Required This Time)

In previous versions, if a test was not required this time you could ñsuppressò it using a checkbox to the left of the test name on the Interventions tab. In version 7.9.8, to avoid confusion with the new checkbox for reviewing out of line results, the ñsuppressò checkbox has been moved. To

mark a test as ñot required this timeò in 7.9.8, click on the test name to display the Intervention details form and tick the checkbox labelled ñCheck this box if this test is not required this timeé ò


Patient
Patient Dawn (31/05/1954)
TreatmentPlan
Rheumatology: 30/06/2009
Check this box if this test is not required this time.
ONLY check this if you are sure that you don't need to know about this result.
InterventionType
Perform a test
Test
CRP

Closing a Set of Planned Tests

In previous versions you were not permitted to close a set of planned tests without entering a review note if:

- Any test had an out of line result or detected trend
- Any test had a missing result

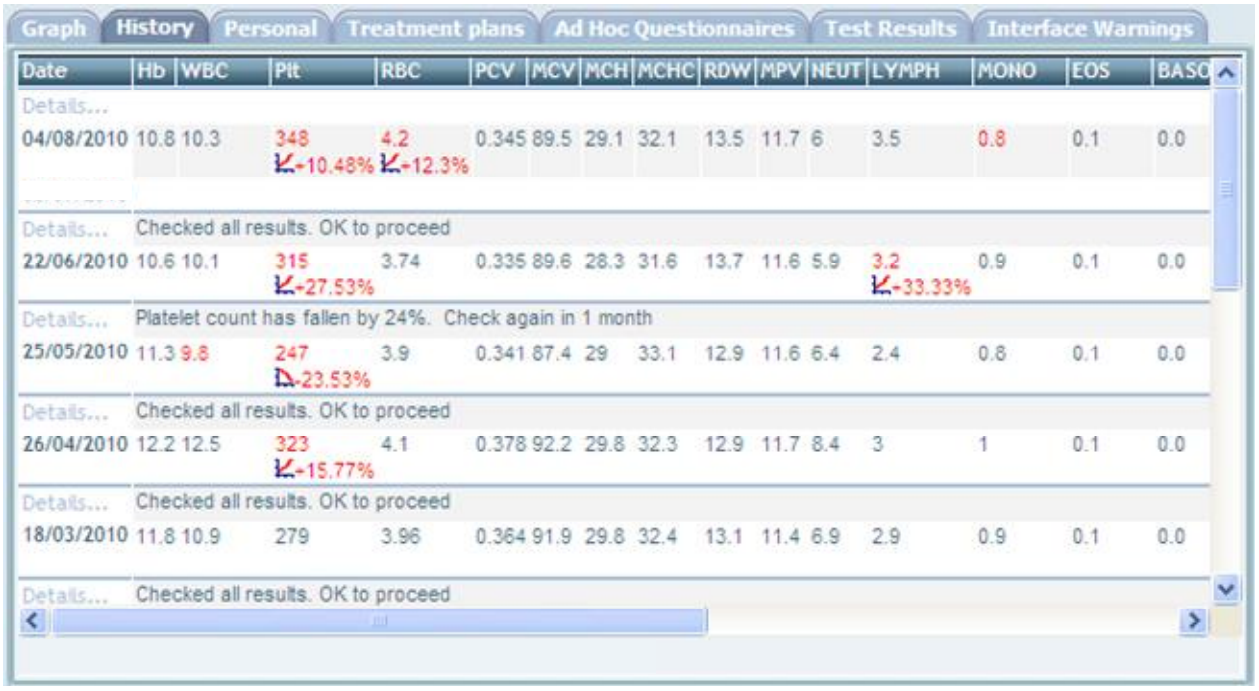
In 7.9.8, review notes are always optional but you are not permitted to close a set of planned tests if:

- Any test has an out of line result or detected trend and the corresponding checkbox has not been checked
- Any test has a missing result and has not been marked as ñot required this timeò

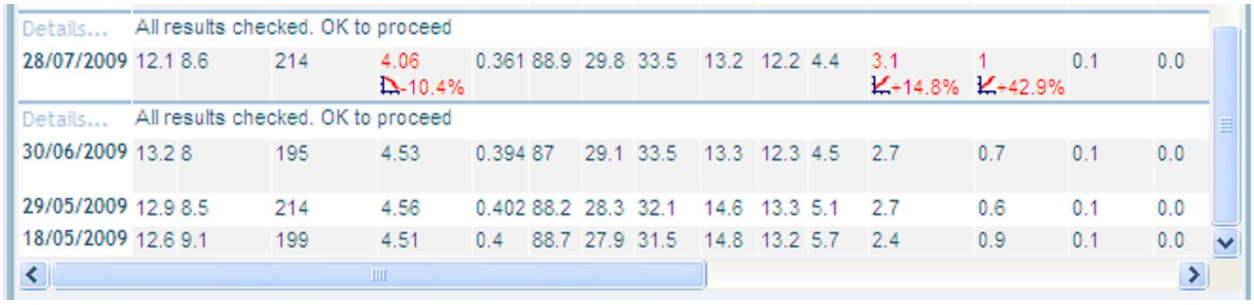
Redesigned History Tab

In version 7.9.8, the test result history tab has been redesigned in line with the Interventions tab described above. In the redesigned history tab:

- All test results, received during the patientôs current therapy (Treatment Plan), are always displayed. The columns are ordered according to the order number assigned to each test in the Test details form.
- All results are displayed by their actual rather than their planned date.
- Out of line results are highlighted in red.
- A blue line, a Details button and any review notes are displayed above each set of planned tests. Clicking the details button opens a screen showing the Intervention details, review notes, notes, referral and audit details for that particular set tests.

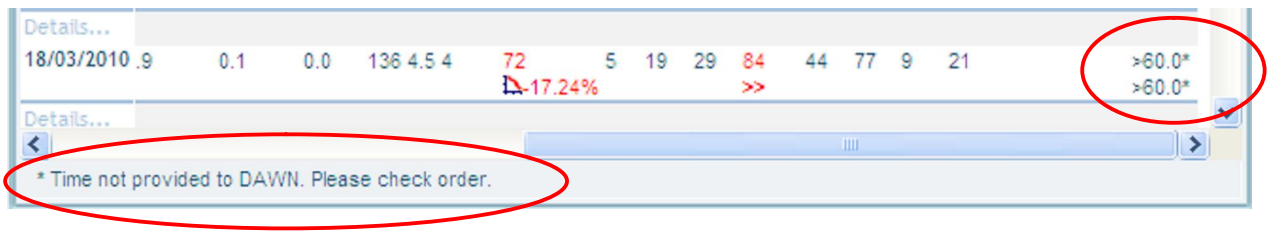

Graph
History
Personal
Treatment plans
Ad Hoc Questionnaires
Test Results
Interface Warnings
Date Hb WBC Plt RBC PCV MCV MCH MCHC RDW MPV NEUT LYMPH MONO EOS BASO
Details...
04/08/2010 10.8 10.3 348 4.2 0.345 89.5 29.1 32.1 13.5 11.7 6 3.5 0.8 0.1 0.0
-10.48% -12.3%
Details... Checked all results. OK to proceed
22/06/2010 10.6 10.1 315 3.74 0.335 89.6 28.3 31.6 13.7 11.6 5.9 3.2 0.9 0.1 0.0
-27.53% -33.33%
Details... Platelet count has fallen by 24%. Check again in 1 month
25/05/2010 11.3 9.8 247 3.9 0.341 87.4 29 33.1 12.9 11.6 6.4 2.4 0.8 0.1 0.0
-23.53%
Details... Checked all results. OK to proceed
26/04/2010 12.2 12.5 323 4.1 0.378 92.2 29.8 32.3 12.9 11.7 8.4 3 1 0.1 0.0
-15.77%
Details... Checked all results. OK to proceed
18/03/2010 11.8 10.9 279 3.96 0.364 91.9 29.8 32.4 13.1 11.4 6.9 2.9 0.9 0.1 0.0
Details... Checked all results. OK to proceed

If more than one set of results is received for a set of planned tests, they appear as separate rows below the appropriate blue review line as shown below:



If more than one result for the same test is received for the same test date, the results appear on different rows corresponding to their respective times. You can hover your mouse over the date to see the full date and time.

If there is more than one result for the same test on the same date and the test time is not provided, DAWN displays the results beneath each other, using the date received to determine the likely order. In this case, DAWN displays an asterisk next to each result to denote that the true order is not known:



Amending and Deleting Patient Results

In previous versions of DAWN, if you made a mistake entering a test result manually you could edit the value but not the actual date and time of the test. In version 7.9.8, you can edit the actual date and time, provided the result remains the latest patient result for that test.

You can also delete a test result that is no longer displayed in the interventions tab or associated with an intervention for a previous closed set of tests.

What's New In DAWN CF v7.9.7

Changes Affecting The Chronic Disease Monitoring Base Module

Option To Default Consultant On New Treatment Plans

It is now possible to configure DAWN to automatically set the consultant on newly created Treatment Plans to the Healthcare Professional that was selected on the patient's previous Treatment Plan. When the consultant is set automatically, a quick note is added to for patient. The option to set the consultant automatically can be set separately for each disease area in use.

Changes Affecting The Clinical Framework Base System

Referring GP Defaulted On New Treatment Plans

When creating a new Treatment Plan, the referring GP will now automatically be set to the Healthcare Professional that was most recently selected as the referring GP on any of the patient's Treatment Plans.

Referring GP Updates Received Via The Interface

When previous versions of DAWN received a referring GP update message via the demographics interface for either a patient that the interface has just created in DAWN or an existing patient with no Treatment Plan, it is unable to process the GP update and so places the message on the hold monitor. Version 7.9.7 can now successfully process these GP update messages and no longer places them on the hold monitor.

Referring GP Updated In All Disease Areas

If the referring GP is updated in DAWN for a patient with Treatment Plans in multiple disease areas, the update will now automatically occur in all disease areas.

Quick Note Created For GP Updates

When a patient's referring GP is selected (or updated) in DAWN a quick note containing details of the selected GP is added for the patient.

What's New In DAWN CF v7.9.6

Changes Affecting The Anticoagulation Base Module

Redesigned INR And Dosage History Tab

The INR and Dosage History Tab has been redesigned so that:

- The full dosing instruction can be shown (rather than having to hover the mouse over the information icon to see the dosing instruction in a separate popup window). After upgrading to this version, the dosing instruction will be included in the history display by default. To hide this column, update the new system setting AC_ShowInHistory_DosingInstructions
- The DNA count column can be hidden. To hide this column, update the new system setting AC_ShowInHistory_DNACount
- The time in range column can be hidden. To hide this column, update the new system setting AC_ShowInHistory_TimeInRange

What's New In DAWN CF v7.9.5

Changes Affecting The Anticoagulation Base Module

Changes To Prevent Maintenance Dosing Being Used for Patients With Unstable Dose History

The DAWN maintenance module is intended for dosing patients who are already on a stable maintenance dose. It is not appropriate for patients being induced on Warfarin or receiving reduced or booster doses perioperatively. DAWN provides induction and manual/bridging therapy for use in these cases but previous versions relied entirely on the Healthcare Professional's judgement in selecting the appropriate therapy.

Version 7.9.5 includes several changes aimed at detecting when a patient's doses and intervals appear to be outside the scope of the normal maintenance dosing and then either switching the patient to manual dosing or taking other actions such as disabling automatic dose calculation to mitigate the risk. These changes are:

Prevent Automatic Dose Calculation If Last Interval Or Interval Before Last < 7 Days

Automatic dose calculation is now prevented if the last test interval or the interval before last is less than 7 days. Some induction or post-operative protocols include a one-week test interval as a final step. Preventing automatic dose calculation after an initial one-week interval, following a change, prompts the user to manually verify that the dose really is an appropriate maintenance dose before recommencing automatic dose calculation.

"Bridging" Therapy Renamed To "Manual/Bridging" Therapy

"Bridging" therapy has been renamed to "Manual/Bridging" therapy. This has been done to make it clear to the user that this therapy is not only intended for when LMWH is used to "bridge" a stop or reduction in the oral anticoagulant dose.

Automatic Switch To "Manual/Bridging" Therapy

Patients will now automatically have their therapy within DAWN switched to "Manual/Bridging" if a dose change is entered that exceeds the maximum percentage change allowed for the patient's treatment plan or 25% (whichever is the lower threshold). If the treatment plan setting is blank then a value of 25% is be used. This switch will

happen regardless of whether the dose is entered as history or via the dosing panel (either manually or as the result of an automatic dose calculation).

When the therapy is automatically switched to ñManual/Bridgingò a message is displayed informing the user what has happened and a treatment note is added for the patient.

The switch is performed at the Treatment Plan level so that all subsequent Treatment records are also òManual/Bridgingò until a healthcare professional makes a deliberate decision to switch the patient back to Maintenance therapy. This switch triggers a message asking the user to confirm that the patient is on a stable maintenance dose.

Users are allowed to authorise doses for patients on ñManual/Bridgingò therapy only if the new User Profile setting "AllowAuthoriseOfManualDose" is set to True. This setting is initially defaulted to True for all user profiles and so after installing this version of DAWN it is important to disable the setting for any user profiles where the ability to perform manual dosing is inappropriate.

ñNo Next Interval Foundò Warning Re-worded

The ñNo Next Interval Foundò warning has been re-worded to say ñUnable to suggest a test interval ï last interval suggests instability.ò

Checks When Adding INR/Dose History

As a safeguard against typing errors when entering historical INRôs and doses, a check is now made for:

i. A large INR change - using the Target Range setting for a large INR change.

ii. A large dose change - using the max percentage dose change setting for the patientôs treatment plan or 25% (whichever is the lower threshold). If the treatment plan setting is null or zero a value of 25% is be used.

If either of these is detected a message box alerts the user and ask them to confirm that the relevant values are correct.

Message Event Prevented When Interface Schedules An Appointment Prior To Inserting An INR

For a patient to have an INR result entered, they must have a scheduled next appointment in DAWN. If the inbound interface receives an INR for a patient who does not have a next appointment then the interface must first create and schedule a new next appointment. If the inbound interface receives an INR for a patient whose next appointment still has a status of ñNewô then the interface must first schedule that appointment.

DAWN can be configured to send messages (e.g. a patient letter) whenever an appointment is scheduled and it has been found that when the interface schedules a new appointment as described above then these letters are produced ï potentially containing out-of-date INR and dosing information. To prevent this DAWN has now been enhanced to not trigger such letters when the interface schedules an appointment in these circumstances.

Changes Affecting The Chronic Disease Monitoring Base Module

Improved Performance Of The Test Result Monitor Screen

The Test Result Monitor has been enhanced to remove the short delay that can be experienced on opening the screen when there are extremely large volumes of test results held within the DAWN database.

Changes Affecting The Clinical Framework Base System

Updated Warnings And Conditions Of Use On Login Screen

Several new clauses have been added to the list of warnings and conditions of use displayed on the login screen. These include details of a webpage showing any safety notices issued by 4S.

Count Of Current Users

In previous versions of DAWN it was sometimes possible for the count of current DAWN users to be incorrect. If the incorrect count is equal to or higher than the licensed maximum number of users then this prevents users logging into DAWN. This incorrect count has now been corrected.

What's New In DAWN CF v7.9.4.1

Changes Affecting The Chronic Disease Monitoring Base Module

Update Of PatientInterventions With Test Results

Test results inserted into DAWN as part of the data conversion process can now optionally be prevented from updating a patient's latest open Visit. This can be done by setting the test result status to 'Archive' when inserting them during the data conversion process. Previously it was possible is some circumstance for historical test results to update a new Visit – even if the date of those test results was before the date of earlier Visits.

What's New In DAWN CF v7.9.4

Changes Affecting The Clinical Framework Base System

Enhancement To Ensure Compatibility With Internet Explorer v6

Various security enhancements were made in DAWN v7.9 to prevent an unauthorised user being able to gatecrash a DAWN session using various hacking techniques. One of these safeguards uses an HTTP only cookie to hide relevant session identifiers from potentially malicious client side scripts. While this safeguard works well with modern browsers it has been found that this particular feature is not fully compatible with Internet Explorer v6.

Version 7.9.4 allows the use of HTTP only cookies to be disabled via a system setting, making this version compatible with Internet Explorer v6. The application will be configured to NOT use HTTP only cookies by default when installed.

Even without the HTTP only cookie, the remaining security features in DAWN make this type of session hijacking very difficult to achieve. Please contact 4S if you require further details.

What's New In DAWN CF v7.9.3

Changes Affecting The Chronic Disease Monitoring Base Module

Enhancement To Simplify Changing Therapy Phase

DAWN has been enhanced to automatically update existing visits when a patient's therapy phase is changed.

If a new or scheduled appointment exists when the user chooses to change phase, this appointment will be carried into the new phase automatically.

If an existing appointment has a status of partially or fully completed results, the user will be asked whether they want to move this visit into the new phase. If they say no, they will be prompted to close the visit before changing phase and the phase will not change.

If a visit ï of any status ï is carried into a new phase and the phase settings require any additional interventions, these will be added to the visit, but no existing interventions will be dropped (for this one visit).

What's New In DAWN CF v7.9.2

Changes Affecting The Chronic Disease Monitoring Base Module

Review Notes Must Be Entered When Closing A Visit With Warnings

In previous versions of DAWN a visit cannot be closed without review notes if the visit has any test results that are out of range or if there are any unsupressed tests that do not have a result entered. Version 7.9.2 now also requires review notes if any tests have a trend detected, if there is a previous test result warning or is there is any range check warnng text.

What's New In DAWN CF v7.9.1

Changes Affecting The Chronic Disease Monitoring Base Module

Enhanced Trend Detection Options

In previous versions of DAWN you had the option to define a percentage change threshold for a test. Test results that differed by this amount or more were flagged for attention. You could also specify whether to flag a change if it occurred successively across two, three or up to five successive results.

However, in some cases this meant that in order to catch a 25% change in an abnormal result (for example a change in ALT from 80 to 100), many normal results might be flagged too (for example a change in ALT from 16 to 20).

Version 7.9.1 affords greater flexibility. You can set up to three independent trend checks and specify whether each applies to results outside, within or regardless of any limits effective for this patient and this test. You can further specify whether each check detects a percentage or absolute change in the result and whether it only applies to rises, falls or changes in either direction. You could, for example, detect 25% rises in ALT that are outside any defined limits and look for absolute changes of 10 or more within limits.

Please note that if you have any reports that provide information on how your tests are defined with DAWN these will no longer work due to the database changes made for these enhanced trend detection options. For assistance with updating any such reports please contact 4S.

What's New In DAWN CF v7.9

Changes Affecting The Clinical Framework Base System

Making DAWN Easier To Use

The following changes have been implemented to the make the application easier and more intuitive for the user. Please refer to the DAWN help system or e-manual for further details.

1. The top panel of the application has been amended to include the following functionality:

   Open Screen Tabs.

   The top panel will show a tab for each screen the user currently has open. This replaces the drop down list box that was available in the top right hand corner of previous versions of the application. Clicking on a tab will return the user to the corresponding screen.

   New Buttons.

   The top panel will include the following 3 new buttons:

   ó Close all tabsô ï This will close all open tabs and return the user to the front screen.
   ó System menuô ï This will allow the user to toggle the system menu on and off.
   ó Patient searchô ï This will allow the user to navigate straight to the patient search window.

   There will also be new buttons for the available disease areas when viewing a patient. Where a patient has a treatment plan in more than one disease area, corresponding disease area buttons will be enabled to switch between the treatment plans should the user have the relevant permission.

2. To provide a single entry point for patient searches, the patient filter screen has been removed and the main patient search screen has been updated to include all the fields that were available on the filter screen. A new system setting Patient_DefaultSearchField has been created to enable the user to define which field on the patient search screen should contain the cursor when it opens. This will enable the user to immediately enter the value of the field they commonly search on without having to re-position the cursor to the correct field beforehand.

3. The list of patients displayed when the Patient View icon on the main screen is clicked is now displayed in alphabetical order.

4. The Team Members tab on the treatment plan detail screen has been removed and team members can now be maintained via the Contacts tab on the patient detail screen.

5. The Reviews tab on the treatment plan detail screen has been removed as these are shown and are editable from the Review tab on the main patient screen.

6. The Letters tab on the treatment plan detail screen has been removed as it has been obsolete since it was replaced by the Letters tab on the main patient screen.

7. The Transport details are now implemented as a drop-down list of values. Values that are currently being used will have to be defined via a new system setting.

8. The Reminders tab on the treatment plan detail screen has been removed as these are shown and are editable from the Reminders tab on the main patient screen.

9. The Documents tab on the treatment plan detail screen has been removed as these are shown and are editable from the Documents tab on the main patient screen.

10. The Questionnaires tab on the treatment plan detail screen has been removed as these are shown and are editable from the Ad hoc Questionnaires tab on the main patient screen.

11. Alternative onscreen captions can be defined for the Referring GP and Consultant fields in the Referral tab on the Treatment Plan screen and in the new patient wizard. These can be specified in the new system settings TreatmentPlanReferringGpID_FieldCaption and TreatmentPlanConsultantID_FieldCaption

12. Each user can now select a default DAWN clinic for each disease area they have access to. This clinic will then automatically be set as the preferred clinic in any new Treatment Plans that the user creates. These default clinics can be selected in the personal Settings screen available from the main screen

New Patient Wizard

The process of adding a new patient has been simplified by the introduction of a New Patient wizard. The aim of the wizard is to capture the main patient and treatment plan information in one place rather than having to navigate between different screens within the DAWN application. The wizard will be displayed when clicking the 'New' button on the patient screen. It will consist of 5 main steps:

1. Patient Details
2. Treatment Plan Details
3. Next of Kin Details
4. Clinical Details
5. Contact Details

There are new system settings to allow a default messaging method for new patients added via the wizard to be defined (PatientWizard_DefaultMessagingMethod) and to specify a default status for treatment plans created via the wizard (PatientWizard_DefaultACTreatmentPlanStatus for Anticoagulation treatment plans and PatientWizard_DefaultNonACTreatmentPlanStatus for treatment plans in other disease areas).

Please refer to the DAWN help system or e-manual for further details.

DAWN Application Facelift

The overall look and feel of the DAWN application has been given a facelift to make it easier on the eye and simpler to use. This includes altering the colour scheme to various shades of blue and making any buttons appear much more clearly as buttons (for example, the links to the treatment plan and diagnosis in the treatment plan summary panel on the main patient screen and the buttons to change the status of the patient)

Mandatory Fields When Adding A New Patient

When adding a new patient the required fields are firstname and lastname and either the unit number or national number (depending on the system setting PatientUnitOrNationalNumber). In previous versions of DAWN the lastname and firstname fields were marked with an asterisk on the new patient screen to indicate that they are required but this was missing from the unit number or national number field. In version 7.9 new patients are added via the New Patient Wizard which now displays the firstname, lastname and either the unit number or national number with a highlighted background to indicate that they are required fields.

Security Improvements

Once a user has logged into a previous version of DAWN, if the URL from the address bar in Internet Explorer is entered into Internet Explorer on a different PC then while the original user remains logged into the DAWN application it is possible for the user's DAWN session to be accessed on that other PC without the need for a user login.

With version 7.9 this is no longer possible. If the PC on which the user logs in accepts cookies then it is impossible for that session to be accessed on another PC as the DAWN server detects that the user's session was started using cookies and will not allow access from a PC without that correct cookie being present.

If the PC does not accept cookies then the DAWN server will now allow the user's session to be accessed from any IP address other than the one from which the session was started.

Message Centre Performance Improvement

For customers who have sent high volumes of messages to patients, when using the message centre the screen can be very slow to load in previous versions of DAWN. This issue has now been corrected in version 7.9.

Changes Affecting The Anticoagulation Base Module

Making DAWN Anticoagulation Monitoring Easier To Use

The following changes have been implemented to the make Anticoagulation monitoring easier and more intuitive for the user:

1. The option to create the patient's next appointment has been moved from the treatment plan screen to the dosing tab on the patient detail screen. The appointment will also be automatically scheduled into the diary if applicable, using the patient's preferred clinic and time.

2. The Treatment tab on the treatment plan detail screen has been removed and the option to add a patient's historical INR and dose information has been moved to a panel at the bottom of the history tab on the patient detail screen.

3. The Miscellaneous tab on the treatment plan detail screen has been removed:
    - The Preferred Clinic and Preferred Time have been moved on to the main treatment plan details screen.
    - The In Patient Flag, Ward, Admission Type and Admission Location fields have been moved to a new Admission tab.
    - The Problem Patient Flag and the Recalc time in range button have been moved on to the main treatment plan detail screen.
    - The Percentage In Range, Percentage Below Range and Percentage Above Range are available on the patient details screen.
    - The Time In Range Start Date field has been removed.

Average Dose Issue

It is possible, in certain extremely rare circumstances, that when a user amends a dose only the change to the instruction is saved back to the database, leaving the numeric dose as its original value.

DAWN AC bases each dose recommendation on the last numeric dose so in this case, the next time the patient is tested, DAWN AC would recommend a slightly different instruction to the last one, while reporting no dose change.

This appears to be an environmental problem so it is likely that both the instruction and numeric dose appear correct in DAWN AC at the time the error occurs. As such you are more likely to notice the discrepancy when you next dose the patient and DAWN AC does not give the same instruction.

Version 7.9 will present a message if such as instance occurs so that this can be rectified.

Changes Affecting The Chronic Disease Monitoring Base Module

Making DAWN chronic disease monitoring easier to use

The following changes have been implemented to the make chronic disease monitoring easier and more intuitive for the user:

1. Where a patient does not have a next visit defined, an option to create the patient's next visit has been added to the Interventions tab on the patient details screen. The visit will be automatically scheduled into the diary if applicable, using the patient's preferred clinic and time.

The Miscellaneous tab on the treatment plan detail screen has been removed:

- The Preferred Clinic and Preferred Time have been moved on to the main treatment plan detail screen.
- The In Patient Flag, Ward, Admission Type and Admission Location fields have been moved to a new Admission tab.

"Retrieve most appropriate test results for planned test-dates" Button On Visit Screen

The "Retrieve most appropriate test results for planned test-dates" button on the Interventions tab for the current Visit can now be used to update all Intervention records on that Visit with the latest relevant test result held within the Dawn database. In previous versions clicking on this button caused an error.

Reset Button Removed From Phases Tab On Treatment Plan Screen

This reset button has been removed from the Phases tab on the Treatment Plan screen to avoid confusion as this action should not be performed during normal operation of DAWN.

Outstanding Issues

Induction

The Induction Transfer dialog should be displayed when you authorise a dose on or after the Induction Protocol transfer day, if the patient is still on Induction therapy.

However, if you fail to respond to a ? alert against the INR, dose, INR date or next test date, DAWN AC prevents you from accepting or authorising the dose until you have responded to the alert. Once you have either rectified the error or clicked on the ? to confirm the data is correct you can Authorise the dose successfully. However, in this case the Induction Transfer dialog is not displayed.

You can still switch a patient to maintenance therapy by changing their selected Therapy in their Treatment Plan.

Team Members Tab

If the patient currently being displayed is changed while the Team Members tab is open, that tab continues to incorrectly display any Team Members that are selected from the previous displayed patient. That tab should be automatically closed when the a different patient is displayed.

New Patient Wizard Tabs

If additional telephone numbers or email addresses are inserted while adding a new patient via the New Patient Wizard, then the separate tabs that are opened for entering the additional telephone numbers or email addresses remain open after the new patient has been inserted and the Wizard has been closed.